TREATMENT PROTOCOL: NERVE AGENT EXPOSURE

- 1. Contact hazmat resources according to provider agency protocol
- 2. Secure area, establish incident site, and don protective equipment/gear appropriate for hazardous material exposure according to the provider agency protocol
- 3. If more than 2 victims, begin triage (Ref. No. 519.2, MCI Triage Guidelines) and antidote treatment based on victims' exposure
- 4. ESTABLISH BASE or MEDICAL ALERT CENTER (MAC) CONTACT

Provide important scene information such as the type of decontamination performed, signs/symptoms, smells, properties of contaminant (e.g., solid, liquid, gas)

If there are multiple symptomatic patients, Diazepam and Pralidoxime Chloride are available in the EMS Chempack and can be requested from the Medical Alert Center when 50 ormore victims are involved

For <u>severe exposure</u>, <u>begin treatment immediately</u> prior to decontamination For <u>mild and moderate exposure</u>, <u>ensure decontamination</u> procedures are completed before treatment or transport to facility **0**

MILD EXPOSURE: miosis, rhinorrhea and increased salivation:

Mark I kit or DuoDote (atropine 2.1mg and pralidoxime chloride 600mg) 1 dose IM ❸
If symptoms persist:

Atropine

2mg IM or IV

May be repeated every 5min until patient symptoms improve

After 6mg IM, subsequent doses to be given IV

Pediatrics: 0.05mg/kg IM or IV - See Pediatric (Color Code) Dosages for Chemical Weapons ❷

MODERATE EXPOSURE: miosis, rhinorrhea, shortness of breath and/or vomiting and diarrhea:

Mark I kits or DuoDotes 2 doses IM one after another 999

If symptoms persist:

Atropine

2mg IM or IV

May be repeated every 5min until patient symptoms improve

After 6mg IM, subsequent doses to be given IV

Pediatrics: 0.05mg/kg IM/IV - See Pediatric (Color Code) Dosages for Chemical Weapons ②

SEVERE EXPOSURE: respiratory distress, respiratory arrest, cyanosis, extreme SLUDGE (salivation, lacrimation, urination, defecation, gastrointestinal distress and emesis) seizures, unconsciousness

Mark I kits or DuoDotes 3 doses IM one after another 895

Midazolam (or if available, see Diazepam below)

2-5mg IV titrated to seizure control

5mg IN or IM if unable to obtain venous access

May repeat one time in 5min, maximum total adult dose 10mg all routes

Pediatrics: 0.1mg/kg IV - See Pediatric (Color Code) Dosages for Chemical Weapons

5mg IM, if unable to obtain venous access

May repeat one time in 5min, maximum total pediatric dose 5mg all routes

Diazepam (if available)

10mg IM or 5-10mg IV

Pediatrics: 0.1mg/kg IV - See Pediatric (Color Code) Dosages for Chemical Weapons

EFFECTIVE DATE: 7-1-11

SUBJECT: **NERVE AGENT EXPOSURE**

REFERENCE NO. 1225

TREATMENT PROTOCOL: NERVE AGENT EXPOSURE

If symptoms persist:

Atropine 2mg IM or IV

May be repeated every 5min until patient symptoms improve

After 6mg IM, subsequent doses to be given IV

Pediatrics: 0.05mg/kg IM/IV - See Pediatric (Color Code) Dosages for Chemical Weapons 2

Once resources allow, perform:

- 5. Basic airway
- 6. Spinal immobilization prn
- 7. Oxygen/pulse oximetry
- 8. Advanced airway prn
- 9. Cardiac monitor: document rhythm and attach ECG strip if dysrhythmia identified
- 10. Venous access prn
- 11. If hypotensive,

Normal Saline fluid challenge

10ml/kg IV at 250ml increments

Use caution if rales present

Pediatrics: 20ml/kg IV

SPECIAL CONSIDERATIONS

- If eye involvement: continuous flushing with NS during transport; allow patient to remove contact lenses, if possible
- AtroPen:

Pediatrics: See Pediatric (Color Code) Dosages for Chemical Weapons

6-18kg: Mild 1 AtroPen 0.5mg

Moderate 2 AtroPen 0.5mg Severe 3 AtroPen 0.5mg

18-41kg: Mild 1 AtroPen 1.0mg

Moderate 2 AtroPen 1.0mg Severe 3 AtroPen 1.0mg

- Administer additional Mark I kits or DuoDotes for a total of 3 if symptoms progress in MILD or MODERATE exposures.
- Pediatrics: For severe exposures, 1 Mark-I kit or Duodote can be given to any child, regardless of age or weight, as the initial antidote therapy when no other atropine or pralidoxime source is available.
- Pralidoxime Chloride (2PAM) is available in EMS Chempack, for moderate and severe symptoms only

Pediatrics: See Pediatric (Color Code) Dosages for Chemical Weapons vveight less than 20kg or 2yrs of age and younger: 20mg/kg IM one time Weight equal to or greater than 26kg or 2yrs of age and older: give 600mg IM one time

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